

WHAT IS CLAIMED IS:

1. A radiowave monitoring method comprising: the step of comparing an observation result of an arrival direction and a pattern of intensities of a radiowave observed at one position in an observation area with simulation results of arrival directions and patterns of intensities of radiowaves emitted from said one position, which are to be observed at other plural positions in the observation area.

2. A radiowave monitoring method according to claim 1, wherein

that of said plural positions whose simulation result shows the arrival direction and the pattern of intensities of the radiowave most correlated with the observation result at said one position is identified as a location of a radiowave emitting source.

3. A radiowave monitoring method according to claim 1, wherein

in simulating the arrival directions and the patterns of intensities of radiowaves emitted from said one position, the observation area is two-dimensionally divided into a plurality of regions, and electric field intensities to be observed in the respective regions are computed.

4. A radiowave monitoring method according to

claim 3, wherein

in simulating the arrival directions and the patterns of intensities of radiowaves emitted from said one position, changing the emission direction of radiowaves emitted from said one position, the electric field intensities to be observed in the respective regions are computed to give electric field intensity distributions for the respective emission directions.

5. A radiowave monitoring method according to claim 1, wherein

in simulating the arrival directions and the patterns of intensities of radiowaves emitted from said one position, the observation area is three-dimensionally divided into a plurality of spaces, and electric field intensities to be observed in the respective spaces are computed.

6. A radiowave monitoring method according to claim 5, wherein

in simulating the arrival directions and the patterns of intensities of radiowaves emitted from said one position, changing the emission direction of radiowaves emitted from said one position, the electric field intensities to be observed in the respective spaces are computed to give electric field intensity distributions for the respective emission directions.

7. A radiowave monitoring method according to claim 3, wherein

in simulating the arrival directions and the patterns of intensities of radiowaves emitted from said one position, geography and ground objects in the observation area are taken into consideration.

8. A radiowave monitoring method according to claim 5, wherein

in simulating the arrival directions and the patterns of intensities of radiowaves emitted from said one position, geography and ground objects in the observation area are taken into consideration.

9. A radiowave monitoring method according to claim 2, wherein

based on the location of the identified radiowave emitting source and the simulation result, propagation path of the radiowaves from said one position to the radiowave emitting source is traced.

10. A radiowave monitoring method according to claim 9, wherein

based on a result of tracing the propagation path, antenna directivity of the radiowave emitting source is estimated.

11. A radiowave monitoring method according to claim 10, wherein

based on the estimated antenna directivity of the radiowave emitting source, an electric field intensity distribution of the radiowaves emitted from the radiowave emitting source is computed.

12. A radiowave monitoring apparatus comprising:

a radiowave observing means disposed at one position in an observation area, for observing arrival directions and patterns of intensities of radiowaves;

a storing means for storing simulation results of arrival directions and patterns of intensities of radiowaves emitted from said one position, which are to be observed at other plural positions in the observation area; and

a radiowave emitting source identifying means for comparing an observation result given by the radiowave observing means with the simulation results stored in the storing means to identify that of said plural positions whose simulation result shows the arrival direction and the pattern of intensities of the radiowave most correlated with the observation result at said one position as a location of a radiowave emitting source.

13. A radiowave monitoring apparatus according to claim 12, wherein

the storing means two-dimensionally divides the observation area into a plurality of regions, and

computes electric field intensities of radiowaves emitted from said one position, which are to be observed in the respective regions.

14. A radiowave monitoring apparatus according to claim 13, wherein

the storing means stores electric field intensities of radiowaves emitted from said one position in different directions, which are to be observed in the respective regions, for the respective directions.

15. A radiowave monitoring apparatus according to claim 12, wherein

the storing means three-dimensionally divides the observation area into a plurality of spaces and computes electric field intensities of radiowaves emitted from said one position, which are to be observed in the respective spaces.

16. A radiowave monitoring apparatus according to claim 15, wherein

the storing means stores electric field intensities of radiowaves emitted from said one position in different directions, which are to be observed in the respective spaces, for the respective directions.

17. A radiowave monitoring apparatus according to claim 12, further comprising

a propagation path tracing means for tracing a

propagation path of radiowaves from said one position to the radiowave emitting source, based on the location of the radiowave emitting source identified by the radiowave emitting source identifying means and the simulation result.

18. A radiowave monitoring apparatus according to claim 17, further comprising

an antenna directivity estimating means for estimating antenna directivity of the radiowave emitting source, based on a result of tracing the propagation path given by the propagation path tracing means.

19. A radiowave monitoring apparatus according to claim 18, further comprising

an electric field intensity computing means for computing an electric field intensity distribution of radiowaves emitted from the radiowave emitting source, based on the antenna directivity of the radiowave emitting source estimated by the antenna directivity estimating means.